

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

- students_view
- Stored Procedure
- Age_of_plays
- calculate_avg
- greet
- greet2
- multiplied_by
- remainder
- square_num
- square_num2
- square_num3
- square_num4
- strike_rate_fi
- Update_Work
- Functions

Administration Schemas

Information

No object selected

sql1 sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity ap_questions Assignment9 stored_procedure* Triggers

Limit to 1000 rows

```
12 (2, 'Jane', 'Smith', 60000, '2022-11-20', 'Finance'),
13 (3, 'Sam', 'Wilson', 55000, '2021-06-10', 'IT'),
14 (4, 'Anna', 'Taylor', 62000, '2020-03-05', 'HR'),
15 (5, 'Mike', 'Brown', 48000, '2023-08-01', 'Finance');
16 desc worker;
17 select * from worker;
```

Result Grid Filter Rows Export: Wrap Cell Contents

Field	Type	Null	Key	Default	Extra
Worker_Id	int	NO	PRI	NONE	
FirstName	char(25)	NO		NONE	
LastName	char(25)	YES		NONE	
Salary	int	YES		NONE	
JoiningDate	datetime	YES		NONE	
Department	char(25)	YES		NONE	

Result 21 x Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:57:11	create table worker(Worker_Id INT primary key,FirstName CHAR(25) not null, LastName CHAR(25), Salary INT, Joi...	0 row(s) affected	0.016 sec
2	20:57:13	INSERT INTO Worker(Worker_Id, FirstName, LastName, Salary, JoiningDate, Department) VALUES (1, 'John', 'Doe...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
3	20:57:15	desc worker	6 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

students_view

Stored Procedure

Age_of_plays

calculate_avg

greet

greet2

multiplied_by

remainder

square_num

square_num2

square_num3

square_num4

strike_rate_fi

Update_Work

Functions

Administration

Schemas

Information

No object selected

sql

sql joins

built in fn

user_defined_fn

subquery

views*

To_do_activity

stored procedure

Todo_sctivity

sp_questions

Assignment9,s

Limit to 1000 rows

13

(3, 'Sam', 'Wilson', 55000, '2021-06-10', 'IT'),

14

(4, 'Anna', 'Taylor', 62000, '2020-03-05', 'HR'),

15

(5, 'Mike', 'Brown', 48000, '2023-08-01', 'Finance');

16

desc worker;

17

select * from worker;

18

Result Grid

Filter Rows:

Edits

Export/Import:

Wrap Cell Content:

	Worker_Id	FirstName	LastName	Salary	JoiningDate	Department
▶	1	John	Doe	50000	2023-01-15 00:00:00	HR
	2	Jane	Smii Smith	60000	2022-11-20 00:00:00	Finance
	3	Sam	Wilson	55000	2021-06-10 00:00:00	IT
	4	Anna	Taylor	62000	2020-03-05 00:00:00	HR
	5	Mike	Brown	48000	2023-08-01 00:00:00	Finance
*	NULL	NULL	NULL	NULL	NULL	NULL

worker 22 x

Output

Action Output

#	Time	Action	Message
✓	1 20:57:11	create table worker(Worker_Id INT primary key,FirstName CHAR(25) not null, LastName CHAR(25), Salary INT, Joi...	0 row(s) affected
✓	2 20:57:13	INSERT INTO Worker (Worker_Id, FirstName, LastName, Salary, JoiningDate, Department) VALUES (1, 'John', 'Doe...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
✓	3 20:57:15	desc worker	6 row(s) returned
✓	4 20:57:24	select * from worker LIMIT 0, 1000	5 row(s) returned

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Navigator: Local instance MySQL80 x

Filter objects

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- Update_Work
- Functions

Administration Schemas

Information

No object selected

sql1 sql joins built in fn user_defined_fn subquery views To_do_activity stored procedure Todo_activity ap_questions Assignment9 stored_procedures Triggers

Limit to 1000 rows

```
19
20 -- 1. Create a stored procedure that takes in IN parameters for
21 -- all the columns in the Worker table and adds a new record to
22 -- the table and then invokes the procedure call.
23 delimiter $$
24 create procedure new_record( IN Worker_Id INT,
25                             IN FirstName CHAR(25),IN LastName CHAR(25),
26                             IN Salary INT,IN JoiningDate DATETIME,
27                             IN Department CHAR(25))
28 BEGIN
29     INSERT INTO Worker(Worker_Id, FirstName, LastName, Salary, JoiningDate, Department)
30     VALUES (6,'Robert','Brown',50000,'2024-07-11','IT'),
31            (7,'Nick','John',50000,'2023-07-11','HR');
32 END$$
33 DELIMITER ;
34 call new_record(7,'Nick','John',50000,'2023-07-11','HR');
35
36
37 -- 2. Write stored procedure takes in an IN parameter for
38 -- WORKER_ID and an OUT parameter for SALARY.
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	20:57:11	create table worker(Worker_Id INT primary key,FirstName CHAR(25) not null, LastName CHAR(25), Salary INT, Joi...	0 row(s) affected	0.016 sec
2	20:57:13	INSERT INTO Worker(Worker_Id, FirstName, LastName, Salary, JoiningDate, Department) VALUES (1,'John', 'Doe...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
3	20:57:15	desc worker	6 row(s) returned	0.000 sec / 0.000 sec
4	20:57:24	select * from worker LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
5	20:57:45	create procedure new_record(IN Worker_Id INT, IN FirstName CHAR(25),IN LastName CHAR(25), IN Salary I...	0 row(s) affected	0.000 sec
6	20:57:52	call new_record(7,'Nick','John',50000,'2023-07-11','HR')	2 row(s) affected	0.000 sec

Object Info Session

The screenshot displays the MySQL Workbench environment. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The Navigator pane on the left shows a list of schemas, with 'students_vier' selected. The main editor window shows a SQL script for creating a stored procedure named 'new_record'. The script includes comments and a call to the procedure. The 'Result Grid' pane shows the output of the script, which includes a table of worker data and a message indicating the successful execution of the stored procedure. The 'Output' pane shows the execution log, including the time taken for each statement and the number of rows affected.

SQL Script:

```

32 END$$
33 DELIMITER ;
34 • call new_record(7,'Nick','John',50000,'2023-07-11','HR');
35
36 • select * from worker;
37 -- ? Write stored procedure takes in an ID parameter for

```

Result Grid:

Worker_Id	FirstName	LastName	Salary	JoiningDate	Department
1	John	Doe	50000	2023-01-15 00:00:00	HR
2	Jane	Smith	60000	2022-11-20 00:00:00	Finance
3	Sam	Wilson	55000	2021-06-10 00:00:00	IT
4	Anna	Taylor	62000	2020-03-05 00:00:00	HR
5	Mike	Brown	48000	2023-08-01 00:00:00	Finance
6	Robert	Brown	50000	2024-07-11 00:00:00	IT
7	Nick	John	50000	2023-07-11 00:00:00	HR

Output:

#	Time	Action	Message	Duration / Fetch
2	20:57:13	INSERT INTO Worker (Worker_Id, FirstName, LastName, Salary, JoiningDate, Department) VALUES (1, 'John', 'D...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.000 sec
3	20:57:15	desc worker	5 row(s) returned	0.000 sec / 0.000 sec
4	20:57:24	select * from worker LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
5	20:57:45	create procedure new_record(IN Worker_Id INT, IN FirstName CHAR(25), IN LastName CHAR(25), IN Salary...	0 row(s) affected	0.000 sec
6	20:57:52	call new_record(7,'Nick','John',50000,'2023-07-11','HR')	2 row(s) affected	0.000 sec
7	20:58:20	select * from worker LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigation: sql1 sql joins builtin fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity sp_questions Assignment9.stored_procedures* Triggers

Limit to 1000 rows

SCHEMAS

Filter objects

- students_view
- Stored Procedure
 - Age_of_play4
 - calculate_avg
 - greet
 - greet2
 - multiplied_by
 - remainder
 - square_num
 - square_num2
 - square_num3
 - square_num4
 - strike_rate_fi
 - Update_Work
- Functions

Administration Schemas

Information

No object selected

```
36 select * from worker;
37
38 -- 2. Write stored procedure takes in an IN parameter for
39 -- WORKER_ID and an OUT parameter for SALARY.
40 -- It should retrieve the salary of the worker with the
41 -- given ID and returns it in the p_salary parameter.
42 -- Then make the procedure call.
43
44 Delimiter $$
45 CREATE procedure worker_salary(in p_id int,out p_salary varchar(50))
46 BEGIN
47     select Salary into p_salary from worker where Worker_id=p_id;
48 END $$
49 DELIMITER ;
50
51 call worker_salary(1,@p_salary);
52 select @p_salary as salary;
53
54
55 -- 3. Create a stored procedure that takes in IN parameters
```

Output

#	Time	Action	Message	Duration / Fetch
5	20:57:45	create procedure new_record(IN Worker_Id INT, IN FirstName CHAR(25),IN LastName CHAR(25), IN Salary...	0 row(s) affected	0.000 sec
6	20:57:52	call new_record(7,'Nick','John',50000,2023-07-11,'HR')	2 row(s) affected	0.000 sec
7	20:58:20	select * from worker LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
8	20:58:44	CREATE procedure worker_salary(in p_id int,out p_salary varchar(50)) BEGIN select Salary into p_salary from wo...	0 row(s) affected	0.000 sec
9	20:58:47	call worker_salary(1,@p_salary)	1 row(s) affected	0.000 sec
10	20:58:49	select @p_salary as salary LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Section

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigation

SCHEMAS

Filter objects

students_view

Stored Procedure

Age_of_playe

calculate_avg

greet

greet2

multiplied_by

remainder

square_num

square_num2

square_num3

square_num4

strike_rate_fi

Update_Work

Functions

administration Schemas

Information

No object selected

sql1 sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_sctivity sp_questions Assignment() stored_procedures* Triggers

Limit to 1000 rows

48 END \$\$

49 DELIMITER ;

50

51 call worker_salary(1,@p_salary);

52 select @p_salary as salary;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

salary

50000

Result 25 x

Read On

Output

Action Output

#	Time	Action	Message	Duration / Fetch
6	20:57:52	call new_record(7,'Nick','John',50000,'2023-07-11','HR')	2 row(s) affected	0.000 sec
7	20:58:20	select * from worker LIMIT 0, 1000	7 row(s) returned	0.000 sec / 0.000 sec
8	20:58:44	CREATE procedure worker_salary(in p_id int,Out p_salary varchar(50)) BEGIN select Salary into p_salary from wo...	0 row(s) affected	0.000 sec
9	20:58:47	call worker_salary(1,@p_salary)	1 row(s) affected	0.000 sec
10	20:58:49	select @p_salary as salary LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
11	20:59:17	select @p_salary as salary LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- Age_of_plays
- calculate_avg
- greet
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- multiplied_by
- remainder
- square_num
- square_num2
- square_num3
- square_num4
- strike_rate_fn
- Functions
- product
- sales
- school

Administration Schemas

Information

No object selected

sql1 sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity sp_questions Assignment3.stored_procedures* Triggers

Limit to 1000 rows

```
54
55 -- 3. Create a stored procedure that takes in IN parameters
56 -- for WORKER_ID and DEPARTMENT. It should update the department
57 -- of the worker with the given ID. Then make a procedure call.
58 DELIMITER $$
59
60 • CREATE PROCEDURE Update_Worker_Department
61   (IN workers_code INT, IN workers_department CHAR(25))
62 BEGIN
63   UPDATE Worker SET department = workers_department
64   WHERE worker_id = workers_code;
65 END $$
66 DELIMITER ;
67 • CALL Update_Worker_Department (1, 'Marketing');
68 • SELECT * FROM Worker WHERE Worker_Id = 1;
69
70 -- 4. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an
71 -- OUT parameter for p_workerCount. It should retrieve the number of workers in the given
72 -- department and returns it in the p_workerCount parameter. Make procedure call.
73 Delimiter $$
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	21:01:04	CREATE PROCEDURE Update_Worker_Department (IN workers_code INT, IN workers_department CHAR(25)) BE...	0 row(s) affected	0.015 sec

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: Filter objects

- Age_of_playe
- calculate_avg
- greet
- greet2
- multiplied_by
- remainder
- square_num
- square_num2
- square_num3
- square_num4
- strike_rate_fi
- Functions
 - product
 - sales
 - school
- Administration
- Schemas
- Information

No object selected

sql1 sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity sp_questions Assignment9 stored_procedures* Triggers

Limit to 1000 rows

```
65 END $$
66 DELIMITER ;
67
68 • CALL Update_Worker_Department (1,'Marketing');
69 • SELECT * FROM Worker WHERE Worker_Id = 1;
70
```

Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content: 15

Worker_Id	Firstname	Lastname	Salary	JoiningDate	Department
1	John	Doe	50000	2023-01-15 00:00:00	Marketing

Worker 26 x Apply

Output

#	Time	Action	Message	Duration / Fetch
✓ 1	21:01:04	CREATE PROCEDURE Update_Worker_Department ((IN workers_code INT,IN workers_department CHAR(25)) BE...	0 row(s) affected	0.016 sec
✓ 2	21:02:10	CALL Update_Worker_Department (1,'Marketing')	1 row(s) affected	0.000 sec
✓ 3	21:02:16	SELECT * FROM Worker WHERE Worker_Id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator: sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity sp_questions Assignment3 stored_procedures* Triggers

Limit to 1000 rows

```
68 • CALL Update_Worker_Department (1,'Marketing');
69 • SELECT * FROM Worker WHERE Worker_Id = 1;
70
71 -- 4. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an
72 -- OUT parameter for p_workerCount. It should retrieve the number of workers in the given
73 -- department and returns it in the p_workerCount parameter. Make procedure call.
74
75 Delimiter $$
76 • CREATE procedure worker_count(in p_department varchar(20) ,out p_workercount varchar(50))
77 • BEGIN
78
79     select count(*) into p_workercount from worker where Department=p_department;
80     END $$
81 delimiter ;
82
83 • call worker_count('HR',@p_workercount);
84 • select @p_workercount as Department;
85
86
87 -- 5. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an OUT
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	21:01:04	CREATE PROCEDURE Update_Worker_Department (IN workers_code INT,IN workers_department CHAR(25)) BE...	0 row(s) affected	0.016 sec
2	21:02:10	CALL Update_Worker_Department (1,'Marketing')	1 row(s) affected	0.000 sec
3	21:02:16	SELECT * FROM Worker WHERE Worker_Id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
4	21:02:48	CREATE procedure worker_count(in p_department varchar(20) ,out p_workercount varchar(50)) BEGIN select co...	0 row(s) affected	0.000 sec
5	21:02:53	call worker_count('HR',@p_workercount)	1 row(s) affected	0.000 sec

Object Info Session

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

sql1 sql joins built in fn user_defined_fn subquery views* To_do_actvity stored procedure Todo_actvity sp_questions Assignment9 stored_procedures* Triggers

Limit to 1000 rows

```
80 END $$
81 delimiter ;
82
83 • call worker_count('HR',@p_workercount);
84 • select @p_workercount as Department;
85
```

Result Grid

Department
2

Filter Rows: | Export: | Wrap Cell Contents: |

Navigation: Schemas

- Age_of_playe
- calculate_avg
- greet
- greet2
- multiplied_by
- remainder
- square_num
- square_num2
- square_num3
- square_num4
- strike_rate_fn

Administration Schemas

Information

No object selected

Result 27 x

Read Only

Output

#	Time	Action	Message	Duration / Fetch
1	21:01:04	CREATE PROCEDURE Update_Worker_Department ((IN workers_code INT,IN workers_department CHAR(25)) BE...	0 row(s) affected	0.016 sec
2	21:02:10	CALL Update_Worker_Department (1,Marketing)	1 row(s) affected	0.000 sec
3	21:02:16	SELECT * FROM Worker WHERE Worker_Id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
4	21:02:48	CREATE procedure worker_count(in p_department varchar(20),out p_workercount varchar(50)) BEGIN select co...	0 row(s) affected	0.000 sec
5	21:02:53	call worker_count('HR',@p_workercount)	1 row(s) affected	0.000 sec
6	21:03:02	select @p_workercount as Department LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: sql1 sql joins built in fn user_defined_fn subquery views* To_do_activity stored procedure Todo_activity sp_questions Assignment9 stored_procedures* Triggers

SCHEMAS

Filter objects

- Age_of_playe
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- square_num3
- square_num4
- strike_rate_fi

Administration Schemas

No object selected

```
85
86
87 -- 5. Write a stored procedure that takes in an IN parameter for DEPARTMENT and an OUT
88 -- parameter for p_avgSalary. It should retrieve the average salary of all workers in the given
89 -- department and returns it in the p_avgSalary parameter and call the procedure.
90
91 DELIMITER $$
92 CREATE PROCEDURE AverageSalaryByDept(
93     IN p_Deptament CHAR(25),
94     OUT p_AvgSalary DECIMAL(18, 2)
95 )
96 BEGIN
97     SELECT AVG(Salary) INTO p_AvgSalary
98     FROM Worker
99     WHERE Department = p_Deptament;
100 END$$
101 DELIMITER ;
102
103 CALL AverageSalaryByDept('Finance', @avgSalary);
104 SELECT @avgSalary AS AverageSalary;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
2	21:02:10	CALL Update_Worker_Department (1,Marketing)	1 row(s) affected	0.000 sec
3	21:02:16	SELECT * FROM Worker WHERE Worker_id = 1 LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
4	21:02:48	CREATE procedure worker_count(in p_department varchar(20),out p_workercount varchar(50)) BEGIN select c...	0 row(s) affected	0.000 sec
5	21:02:53	call worker_count('HR',@p_workercount)	1 row(s) affected	0.000 sec
6	21:03:02	select @p_workercount as Department LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
7	21:03:31	CREATE PROCEDURE AverageSalaryByDept(IN p_Deptament CHAR(25), OUT p_AvgSalary DECIMAL(10...	0 row(s) affected	0.016 sec

Local instance MySQL80 x

File Edit View Query Database Server Tools Scripting Help

Navigator

Limit to 1000 rows

100 END\$\$

101 DELIMITER ;

102

103 CALL AverageSalaryByDept('Finance', @avgSalary);

104 SELECT @avgSalary AS AverageSalary;

Result Grid

Filter Rows: Export: Wrap Cell Contents:

AverageSalary

54000.00

Result 28 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
4	21:02:48	CREATE procedure worker_count(in p_department varchar(20),out p_workercount varchar(50)) BEGIN select c...	0 row(s) affected	0.000 sec
5	21:02:53	call worker_count('HR',@p_workercount)	1 row(s) affected	0.000 sec
6	21:03:02	select @p_workercount as Department LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec
7	21:03:31	CREATE PROCEDURE AverageSalaryByDept(IN p_Deptament CHAR(25), OUT p_AvgSalary DECIMAL(10...	0 row(s) affected	0.016 sec
8	21:03:45	CALL AverageSalaryByDept('Finance', @avgSalary)	1 row(s) affected	0.000 sec
9	21:03:48	SELECT @avgSalary AS AverageSalary LIMIT 0, 1000	1 row(s) returned	0.000 sec / 0.000 sec